

Addonics

TECHNOLOGIES

NAS Adapter

Model: NASU2

User Manual

FCC Warning Statement

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try and correct the interference by one or more of the following suggestions.

Reorient or relocate the receiving antenna

Increase the distance between the equipment and the receiver

Connect the equipment to a different power outlet other than the one where receiver is connected

Consult a certified television or radio technician

1.0 Key Features

- Convert any USB 2.0 / 1.1 mass storage device into a Network Attached Storage device
- Great for adding Addonics Storage Tower, Storage Rack or any Addonics USB storage device onto the network
- USB port can be use to power most 2.5" USB hard drive or any low power USB devices
- Connect a USB printer to share it over the network
- One Fast Ethernet 10/100Mbps port
- Can be set as a DHCP server or client depending on whether a DHCP server is present
- Support Samba server, by which the server hosts 64 clients on line
- Support FTP server allowing up to 8 FTP users at the same time
- Built-in Bit torrent client to download files directly off the internet onto the attached USB storage device
- UPnP AV server can be used to share photo/music files stored on the file server with XBOX 360 video game consoles connected to the LAN
- Supports USB 2.0 / 1.1 specification.
- User Management capability to allow read only or read/write access to folders
- Administrative management access via web browser with password security.
- Compatible with Windows 2000/XP/Vista, Mac 10.5.4 and above, and Linux 2.6.x and above

The NAS adapter is a flexible, economical and powerful unit for your Network. Follow the instructions to help you connect, setup, and configure it.

Note: Any external USB storage device that you connect to the NAS adapter must be first initialized and formatted. This means that if you are connecting an external USB drive with data on it, you will need to make a backup of this data and transfer them back to the USB drive after the drive finishes the formatting by the NAS adapter.

Network Environment

There are 3 different setup conditions you can choose:

A. Setup NAS Adapter as a DHCP Client:

If your NAS adapter is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically.

B. Setup NAS Adapter as DHCP Server:

If your LAN network does not have an active DHCP server, NAS adapter will immediately act as DHCP server and assign itself an IP address for installation.

C. Setup NAS Adapter in Static IP environment:

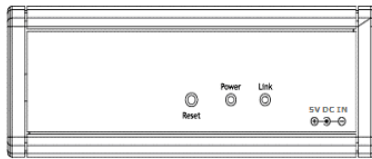
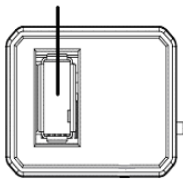
You need first configure the IP address for NAS adapter to operate in the static IP environment. For Configuring details, please refer to "IP Config" setup page.

2.0 NAS Adapter Hardware Installation

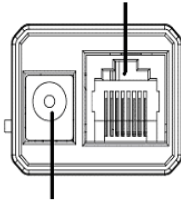
Connections:

1. Connect external USB Storage device into USB port of the NAS Adapter. Power on the USB Storage device.
2. Connect LAN cable via LAN switch and Router.
3. Connect 5V power adapter to power up the NAS adapter

Connect USB Cable to
USB Storage device.



Connect LAN cable to LAN
Switch or Router



Connect to 5V power adapter

NAS Adapter connected directly to a computer's NIC card

If you connect the NAS adapter to a computer directly, the adapter will act as a DHCP server, assigning itself an IP address automatically and also will assign an IP address to the computer's network card.

NAS Adapter connected to a Router or Switch

If your NAS adapter is connected to a LAN network with an active DHCP server, it will obtain an IP address from DHCP server automatically. Or if your LAN network does not have an active DHCP server, NAS adapter will immediately act as DHCP server and assign itself an IP address for installation

3.0 Search NAS Adapter by SDisk Utility

1. Browse the CD enclosed in the product package. Copy and paste "**SDisk Utility**" in to your computer then double click the icon to start search.

Note: "**SDisk utility**" was written with JAVA script, please make sure your computer has installed JAVA before, if not please install the JAVA script form the CD drive.

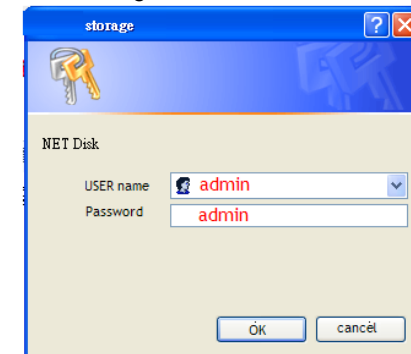


2. When NAS Adapter has been found, click "**Connect**" to enter configurations.



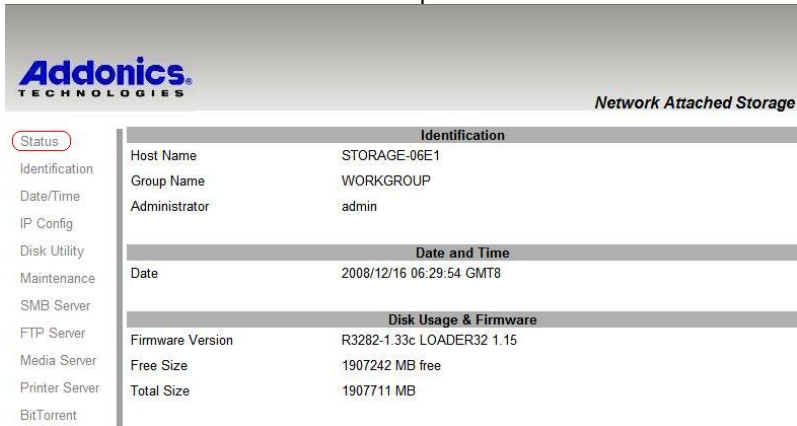
Open NAS Adapter web GUI by using web browser.

1. Open web browser and type default host name "**storage**" in the search bar.
2. Default login is "**admin**" for both User name and password. Click "**OK**" to enter configurations.



Status

Provide the basic information for NAS Adapter.



Identification	
Host Name	STORAGE-06E1
Group Name	WORKGROUP
Administrator	admin

Date and Time	
Date	2008/12/16 06:29:54 GMT8

Disk Usage & Firmware	
Firmware Version	R3282-1.33c LOADER32 1.15
Free Size	1907242 MB free
Total Size	1907711 MB

Identification

You can change and modify your host, group name and password from this page. Click **"Apply"** to save the setting.

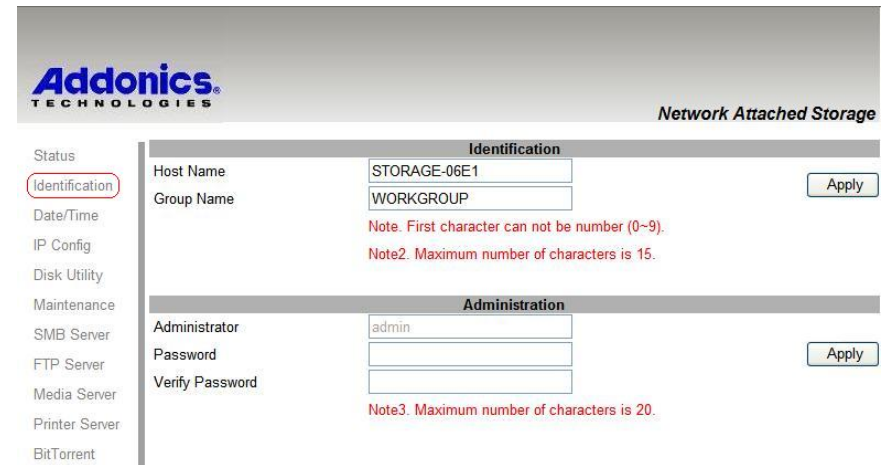
Host name: This is used to identify your device on the network. If you prefer a different name, type in the new name and click **"Apply"** to save setting.

Group Name: This should be the same as your workgroup. In general, the default **"WORKGROUP"** will be OK. But if your workstation belongs to different workgroup, type in the correct group name to modify.

For Window OS, right click on **"My computer"** and choose **"Properties"**, go to the computer name tab to see your current workgroup.

If using a Mac OS system, to join a Windows workgroup, open the directory access utility (under Applications-> utilities). Select SMB and click configure to modify the settings (administrator access required to access this option.)

Note: We strongly suggest you to change the password as soon as you logged in, to prevent unauthorized access.



Identification	
Host Name	STORAGE-06E1
Group Name	WORKGROUP

Note. First character can not be number (0~9).
Note2. Maximum number of characters is 15.

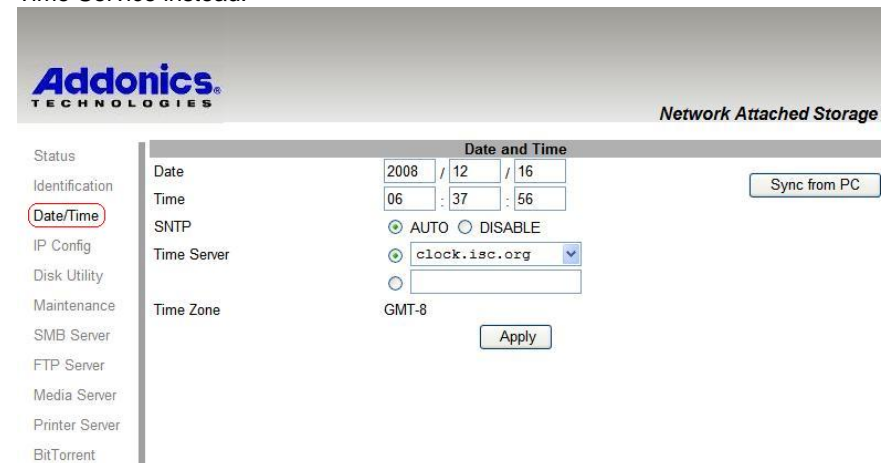
Administration	
Administrator	admin
Password	
Verify Password	

Note3. Maximum number of characters is 20.

Date/ Time Setting

You can change time setting from this page. Clicks **"Apply"** to save the setting.

By default SNTP is set to Network Time Service otherwise select synchronize to PC. If internet access is available, we recommended setting SNTP to Network Time Service instead.



Date and Time	
Date	2008 / 12 / 16
Time	06 : 37 : 56
SNTP	<input checked="" type="radio"/> AUTO <input type="radio"/> DISABLE
Time Server	<input checked="" type="radio"/> clock.isc.org <input type="radio"/> []
Time Zone	GMT-8

Sync from PC

Apply

IP Configuration

By default, "IP Config" is set to "Automatic IP". This will allow the NAS adapter to obtain its IP address automatically. If you prefer setting it manually, select the static IP option, enter your own value and click "**Apply**" to confirm the new setting.

The screenshot shows the Addonics Network Attached Storage web interface. On the left is a sidebar with navigation links: Status, Identification, Date/Time, IP Config (highlighted with a red circle), Disk Utility, Maintenance, SMB Server, FTP Server, Media Server, Printer Server, and BitTorrent. The main content area is titled "IP Config" and contains two sections. The first section, "IP Config", has radio buttons for "Automatic IP" (selected) and "Static IP as below". Below these are input fields for IP (192.168.1.158), Subnet Mask (255.255.255.0), Gateway (192.168.1.1), Primary DNS (192.168.1.1), and Secondary DNS (0.0.0.0), with an "Apply" button to the right. The second section, "DHCP Config", has a "DHCP server" label and radio buttons for "Off", "Enable", and "Disable" (selected), with another "Apply" button to the right. At the bottom, a "MAC address" section shows the address 6A:B3:F6:00:06:E1.

Disk Utility

In this page, you can manage hard disk settings of the USB storage device.

Format: For first time installation, you need to format hard disk into FAT32 file system. Formatting the drive will erase all data on the hard drive.

Warning: For hard drives with data on it, be fore you have a backup before proceeding to format the hard drive!

Tip: You can transfer back the backup data to the NAS Public folder for sharing via the network or USB connection of the USB Storage device.

Sleep Time: This is to select hard disk sleeping mode.

Scan Disk: After the scan, it will show file content information and health status for the hard disk.

The screenshot shows the Addonics Network Attached Storage web interface. On the left is a sidebar with navigation links: Status, Identification, Date/Time, IP Config, Disk Utility (highlighted with a red circle), Maintenance, SMB Server, FTP Server, Media Server, Printer Server, and BitTorrent. The main content area is titled "Disk ID" and shows "External Disk 0". It includes a "Format Disk" section with a warning "You will lose all data! Do you want to do it?" and buttons for "Format", "Set", and "Start". Below this is a "Sleep Time" dropdown menu set to "Disable" (minutes). The "Scan Disk" section shows a status message: "2008/12/16 6:40:49 Scan complete 2 File(s), 72 Dir(s), Used Size=0K, 0 Error(s)". At the bottom are "Delete Msg" and "Refresh" buttons.

Maintenance

This page allows you to update the NAS adapter firmware, to go back to factory default settings or reboot NAS system.

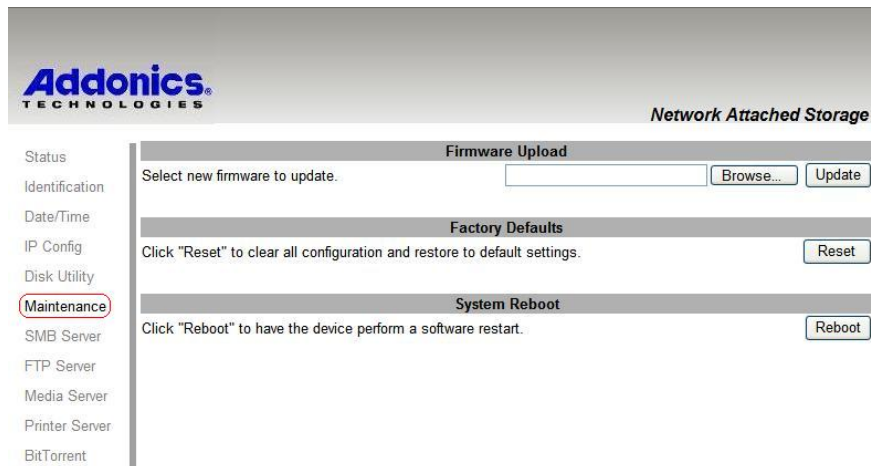
Firmware update: Follow the steps below to update the loader and firmware for NAS adapter.

1. Download the latest firmware.
2. Store the firmware file on your computer and decompress them if necessary.
3. Browse your system and locate the firmware (BIN file).
4. Click on "**Upload**".
5. Confirm the pop-up message to start the update.
6. Wait and DO NOT click anywhere else or turn off the power. The upgrade might take a few minutes.
7. Once the update is done, it will prompt you to reboot the device.
8. Click on "reboot" to restart the device.
9. Wait for about one minute and then go to the status page to confirm the update was successful.

Factory defaults: If you experience problems after a firmware update, it is recommended to reset all settings.

Note: Resetting the device will remove all folder from the sharing list, erase the FTP accounts, and reset all other settings! Please do not power off or disconnect NAS adapter connection during the firmware update process.

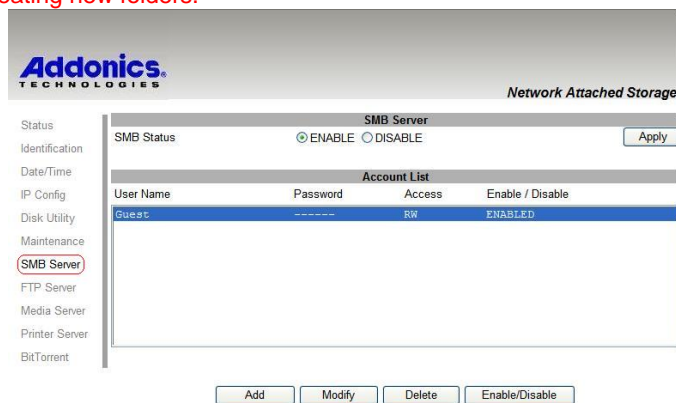
System reboot: This can be used to restart the network drive after a firmware update.



SMB Server

SMB server allows you to share data or files through the network LAN. When a USB storage device is connected, a default Public folder is available to be shared among Guest users. A default Guest user is also created.

Note: Only use English alphabet for folder names and no special characters when creating new folders.

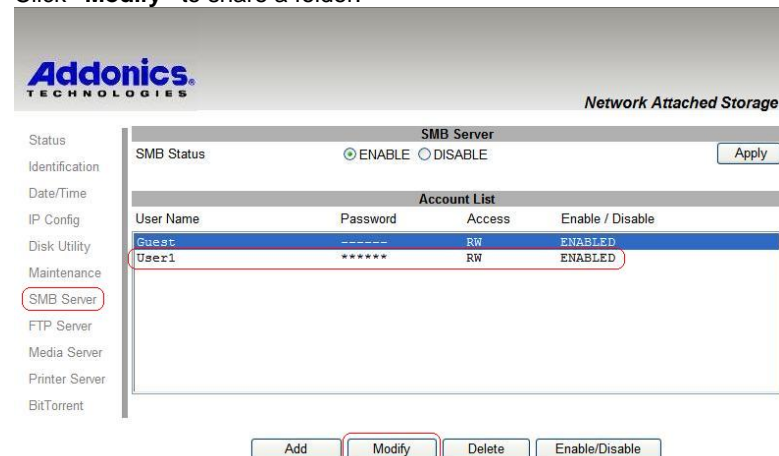


How to create a user

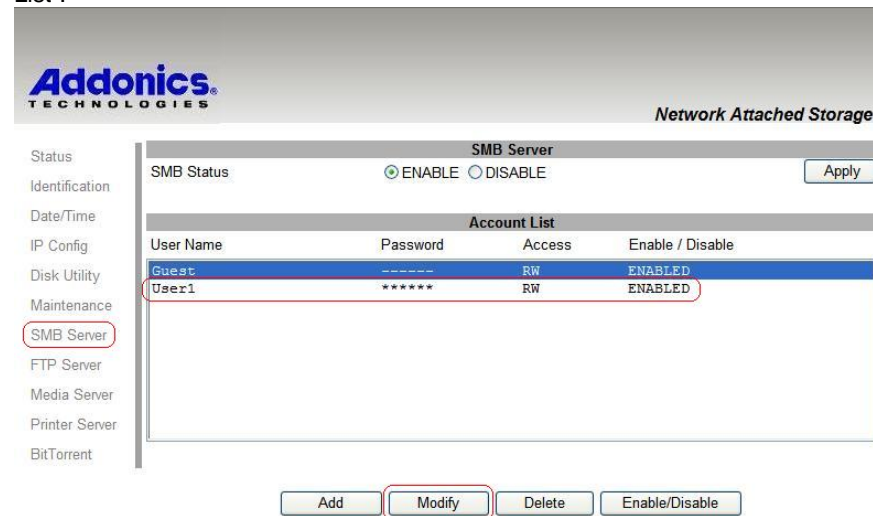
Click on the “Add” button and type new account name and password. Click “OK”. The NAS adapter will also create a SAMBA folder named “User1”.

SMB Add Account	
Account Name	<input type="text" value="User1"/>
Password	<input type="password" value="XXXXXX"/>
Access	<input type="radio"/> Read Only <input checked="" type="radio"/> Read/Write
<p>Note: account name & password maximum is 12 bits.</p>	
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

Click “Modify” to share a folder.



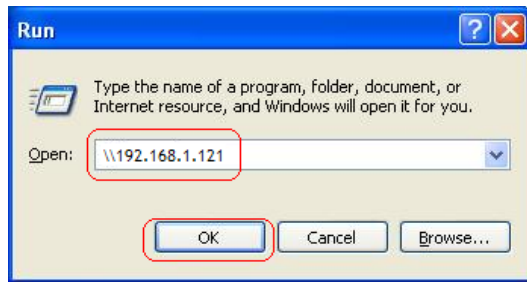
Select “User1” from Folder List and click the “à” to add user on “Sharing List”.



To Access the folder

From the Windows start button, type “Run”, and type \\ follow by the IP address.

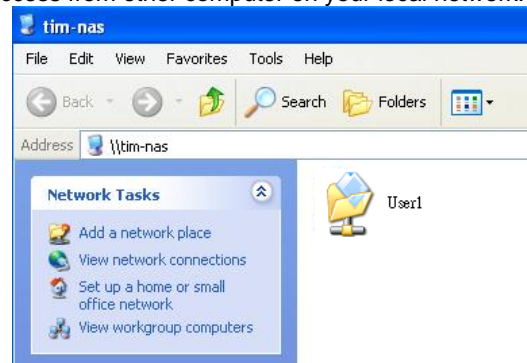
Eg: \\192.168.1.121 and click OK to continue.



Type "User1" and password to login.

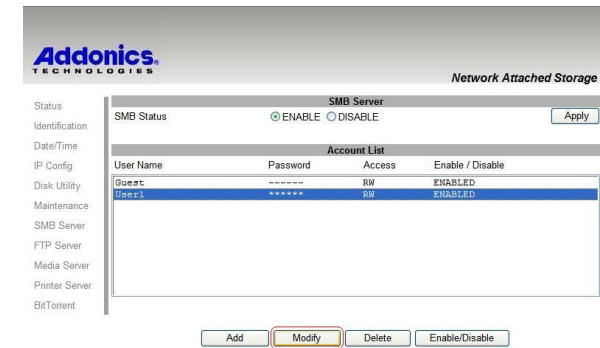


Now you have set up the folder that you wish to share on your NAS adapter. This folder can be access from other computer on your local network.

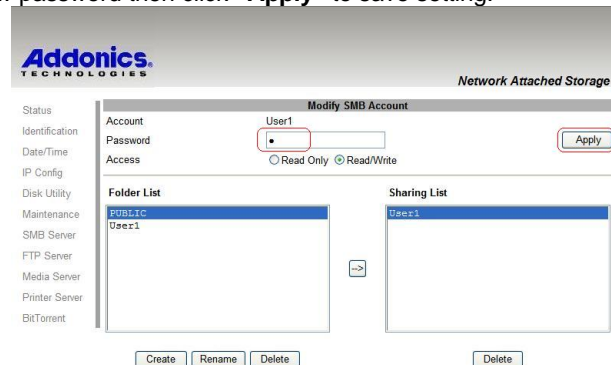


How to modify account password

Select "User1" and then click "Modify".

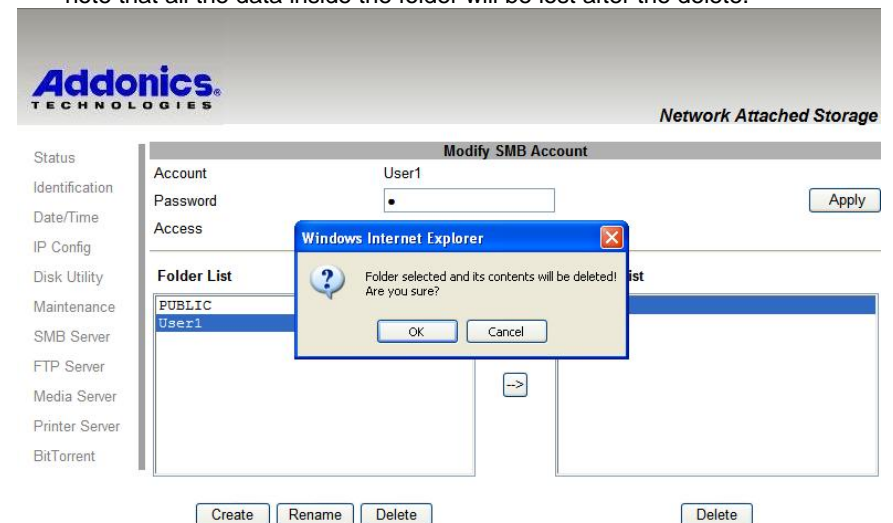


Enter new password then click "Apply" to save setting.



How to delete a SAMBA account

Select an account you wish to delete. Click "Delete" to proceed. Please note that all the data inside the folder will be lost after the delete.



FTP Server

Remember to “Enable” the FTP service on the status page, when you plan on using the FTP server.

FTP server Configuration: The standard port for FTP service is 21. If required, you can change it from any port between 1025-65500. But in general, we recommended using the default port of 21.

File language support: By default, the encoding is set to English. If you want to store or transfer files with a different encoding (different language), choose the corresponding language for the drop down list. In order to transfer and view the files correctly, it is important that you select the correct language!

Anonymous: By default an anonymous user name has been created, it allows FTP users to login without username and password. For security reasons, it is best to add a password!

Note: To be able share FTP resource you need a router to assign the IP address.

Addonics TECHNOLOGIES Network Attached Storage

Status
Identification
Date/Time
IP Config
Disk Utility
Maintenance
SMB Server
FTP Server
Media Server
Printer Server
BitTorrent

FTP Configuration

FTP Status: ☒ ENABLE ☐ DISABLE [Apply]
Port: 21 [Note: Port set either from 1025 to 65500 or 21.] [Apply]
File Language support: English [Change]

Account List

User Name	Password	Access	Enable / Disable
anonymous	-----	RO	ENABLED

[Add] [Modify] [Delete] [Enable/Disable]

How to create FTP account

FTP allows you to share your data through the internet. An internet connection is required before setting up FTP server. Select FTP server and click the “Add” button.

Addonics TECHNOLOGIES Network Attached Storage

Status
Identification
Date/Time
IP Config
Disk Utility
Maintenance
SMB Server
FTP Server
Media Server
Printer Server
BitTorrent

FTP Configuration

FTP Status: ☒ ENABLE ☐ DISABLE [Apply]
Port: 21 [Note: Port set either from 1025 to 65500 or 21.] [Apply]
File Language support: English [Change]

Account List

User Name	Password	Access	Enable / Disable
anonymous	-----	RO	ENABLED

[Add]

FTP New Account - Windows Internet Explorer

http://192.168.1.158/ftp_add.htm

FTP Add Account

Account Name: User2
Password: [masked]
Access: ☐ Read only ☒ Read/Write
[Note: Maximum number of characters is 12.]

[Next] [Cancel]

Done [Internet] 100%

Enter a name and password for the new FTP account and click “Next” to continue. In the account list, you can see an overview of the existing accounts and status. Click “Apply”.

For FTP file transfers, we recommend to use other dedicated FTP client software e.g.: SyncQuick FTP, Cute FTP etc.

Note: When creating FTP accounts, please use only English alphabet and no special character or space for FTP account name.

How to delete FTP account

In the “Account List”, you can see an overview of the existing account and status. You can change them at any time by selecting the account and modifying, disabling or deleting it.

Note: Deleting a folder will erase all the files on the hard drive that are stored inside that folder.

Addonics
TECHNOLOGIES

Network Attached Storage

Status
Identification
Date/Time
IP Config
Disk Utility
Maintenance
SMB Server
FTP Server
Media Server
Printer Server
BitTorrent

FTP Configuration

FTP Status ☒ ENABLE ☐ DISABLE Apply

Port : 21 Note. Port set either from 1025 to 65500 or 21. Apply

File Language support English Change

Account List

User Name	Password	Access	Enable / Disable
anonymous	-----	RO	ENABLED
User2	*****	RW	ENABLED

Add
Modify
Delete
Enable/Disable

Addonics
TECHNOLOGIES

Network Attached Storage

Status
Identification
Date/Time
IP Config
Disk Utility
Maintenance
SMB Server
FTP Server
Media Server
Printer Server
BitTorrent

X-BOX360 Media Server

Photo Folder PUBLIC Set Disable Disable

Music Folder PUBLIC Set Disable Disable
Note. support iTunes

Video Folder PUBLIC Set Disable Disable

Same procedure applies for the Music and Video folders.

On your Xbox 360, go to "Media" tab, select either Music or Pictures and press A button of the Xbox console to continue.



XBOX 360 Media Server

The Media server can be used to share your photo and music files stored on the NAS adapter with an X-BOX360 video game console from Microsoft.

Before you start, make sure both devices are connected to the same local network and turned on.

Go to the X-BOX360 Media Server page, select the folder where your photo files is located using the drop down menu. Once you have selected the folder, click on the "Set" button. This will enable this folder as the shared folder. In the example below **"PUBLIC"** is Share directory.

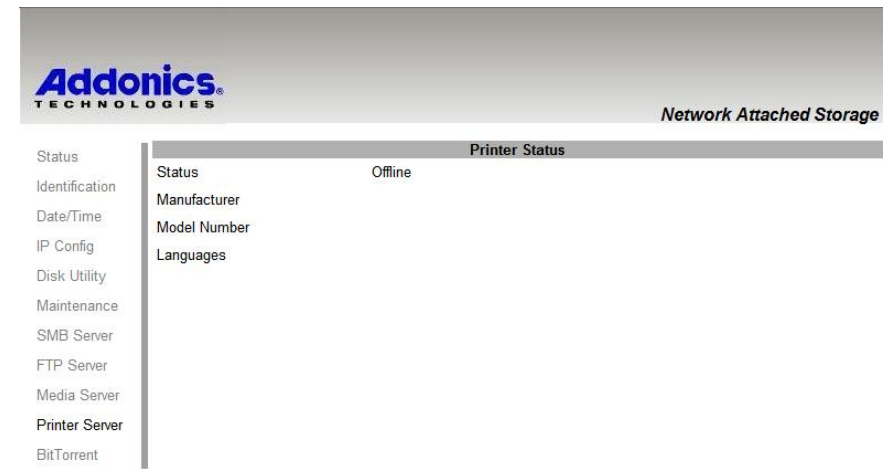
Press X button of the Xbox console to change the source and select your network drive. It should show up as storagexxx and display the folder that you have set up earlier on your NAS adapter.



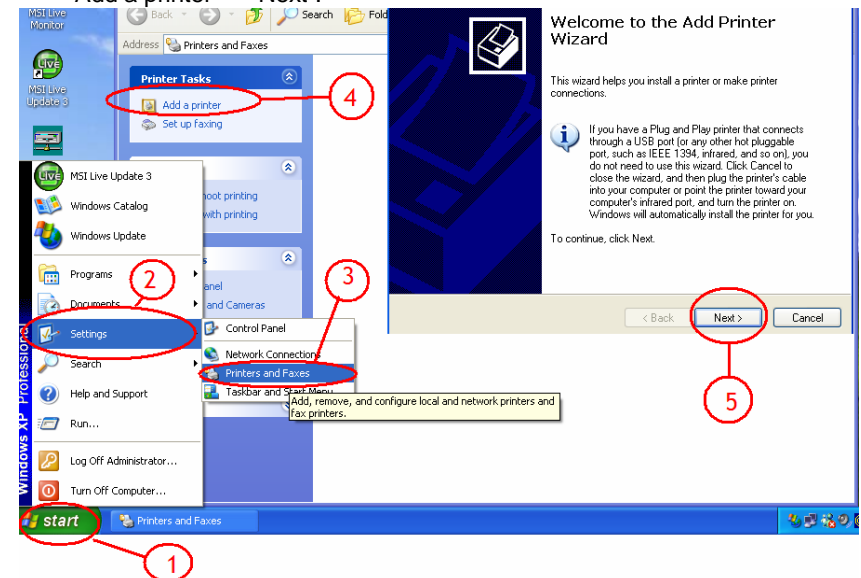
Inside the share folder, you can access your picture or music files, depending on which mode you are currently using. Select the files you would like to see or to listen, and start playback.



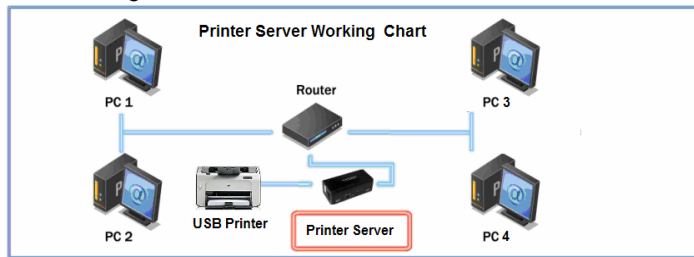
Printer Server



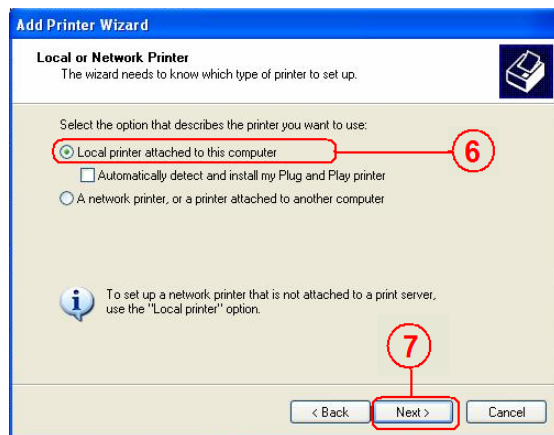
1. Install printer driver, (for example. if Epson PL-6200L Printer is connected to the NAS adapter, you must install PL-6200L driver into the computer first.) After driver installation, click "Start" • "Setting" • "Printer and Faxes" • "Add a printer" • "Next".



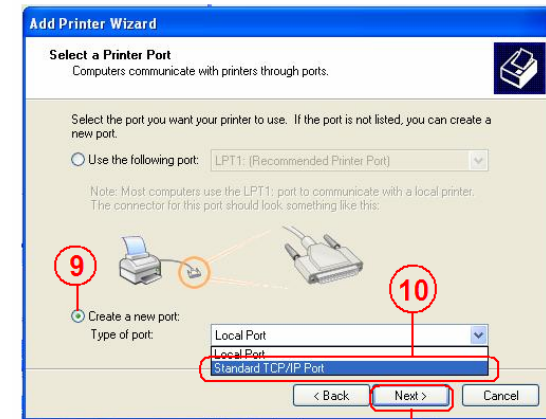
2. Connect USB printer to NAS adapter. Your network environment should be similar with diagram below:



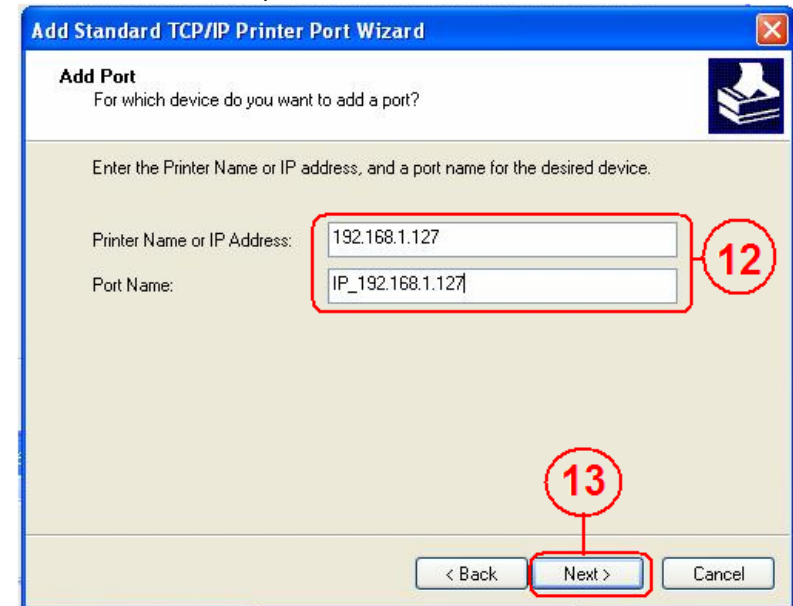
3. Select "Local printer" and click "Next" to continue.



4. Select "Create a new port type of port:" then choose "Standard TCP/IP Port" then click "Next" to continue.



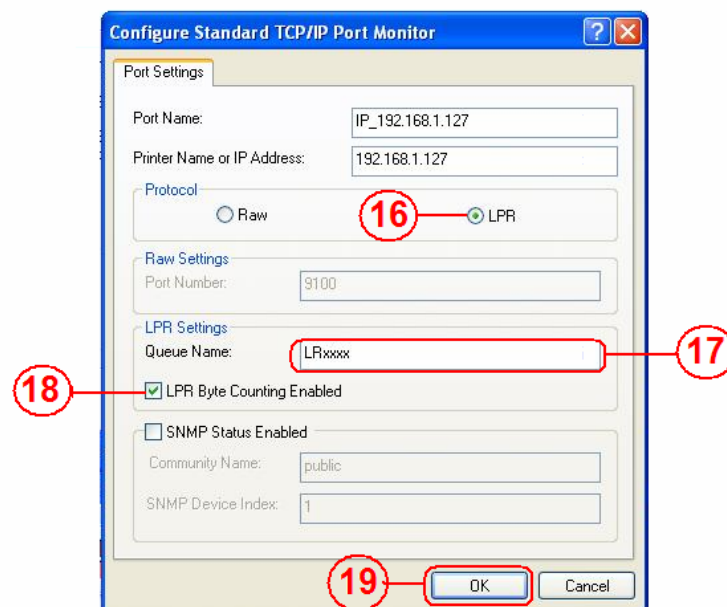
5. Enter the NAS adapter IP address then click "Next" to continue.



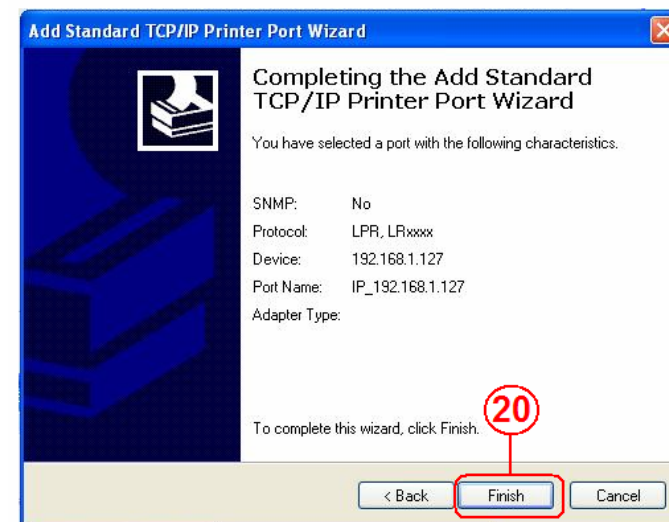
6. Select "Custom" and go to "Setting".



7. Select "LPR" under protocol, and give a queue name eg:LRxxx; select LPR Byte Counting Enabled then click "OK" to finish the port setting.



8. Click "Finish" to complete TCP/IP printer setup.



Note: The NAS adapter printer server does not support GDI/Host-based printers. For some Multi Function Printers (MFP); scanning functions might not be functional probably. Please contact Printer Manufacture for detail Specifications.

Bit Torrent server

The NAS adapter supports Bit Torrent download without using PC resource. A maximum of 4 bit torrent downloads can be running at the same time.

1. Select **"Bit Torrent"** and select the "Download Path" you wish to use. Then click **"Apply"** to save setting. (DO NOT change path setting while performing BT download, otherwise downloading jobs will disappear)
2. Server Port range can be from 6881 to 65535. (6881 is default setting)
3. Type an upload speed limit: 0= unlimited upload speed, and 4 KB is minimum speed. Then click **"Set"** to save setting.

The screenshot shows the 'BitTorrent Setup' window in the Addonics Network Attached Storage interface. On the left is a sidebar with navigation links: Status, Identification, Date/Time, IP Config, Disk Utility, Maintenance, SMB Server, FTP Server, Media Server, Printer Server, and BitTorrent (which is highlighted). The main content area is titled 'BitTorrent Setup' and contains the following fields and buttons:

- System ID:** 52333238322d312e3333636ab3f606e15a9e88
- Download Path:** PUBLIC (with a dropdown arrow and an 'Apply' button)
- Server Port:** 6881 (with a note '(Default:6881 Range:1025~65535)' and a 'Set' button)
- Upload Limit:** 0 (with a note '(KB, Default:0 (unlimited))' and a 'Set' button)
- Mail Notification:** Mail Setup (button)

Below the setup fields is a section titled 'Upload Your Torrent File' with a 'Torrent File' input field, a 'Browse...' button, and an 'Upload' button. At the bottom is a 'Download Queue' section with a large empty box and buttons for 'Restart', 'Pause', 'Stop', 'Show', and 'Remove'.

4. Click **"Browse"** and select torrent file then click **"Upload"** The file will show up to the download queue.

Note: Jobs listed in the Download Queue will be removed when NAS adapter is turned off or USB storage is removed.

Mail Notification

After a download is successful, an email will be sent to the designated email address. Click **"Mail setup"** and input SMTP server, recipient email, SMTP A/C, Password, than click **"Apply"** to save setting.

The screenshot shows the 'BitTorrent Mail Notification' window in the Addonics Network Attached Storage interface. On the left is a sidebar with navigation links: Status, Identification, Date/Time, IP Config, Disk Utility, Maintenance, SMB Server, FTP Server, Media Server, Printer Server, and BitTorrent (which is highlighted). The main content area is titled 'BitTorrent Mail Notification' and contains the following fields and buttons:

- Enable:** ☐
- SMTP Server:** [Text input field]
- Sender:** [Text input field]
- Recipient:** [Text input field]
- Mail Authentication:** ☐
- User Name:** [Text input field]
- Password:** [Text input field]

Buttons for 'Apply' and 'Return' are located to the right of the 'Sender' and 'Password' fields respectively.

Mac installations (Mac 10.5.4 or above)

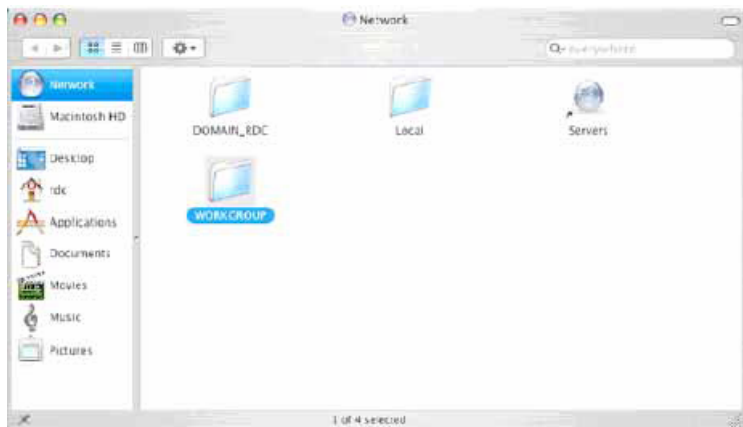
Open the Mac browser "Safari" and key-in the host name of the NAS adapter (for example, "Storage-0000"). It will detect the NAS adapter automatically.

How to setup SAMBA in Mac OS X 10.5.4

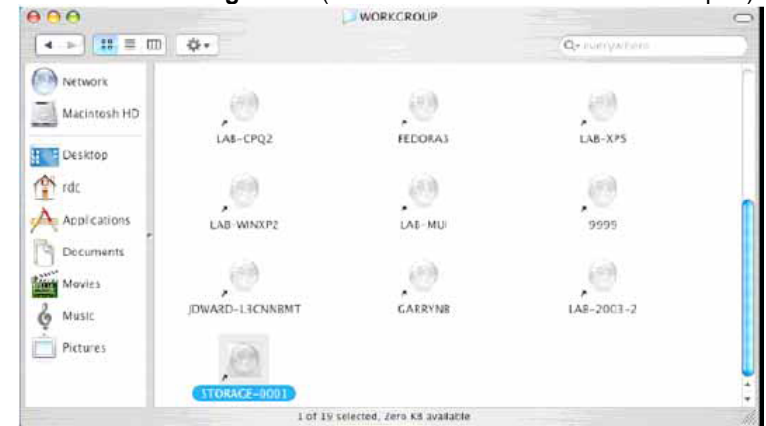
1. Click "Go" on the toolbar, and select "Network" as the screenshot shown below.



2. Double Click "WORKGROUP" (or the correct group name of the NAS adapter), you will find the NAS adapter "STORAGE-xxxx" (or the correct name of the NAS adapter) in following window.



3. Click on the Storage-xxxx (or the correct name of the NAS adapter).



4. Select the folder you wish to share, and click "OK" to share the folder.



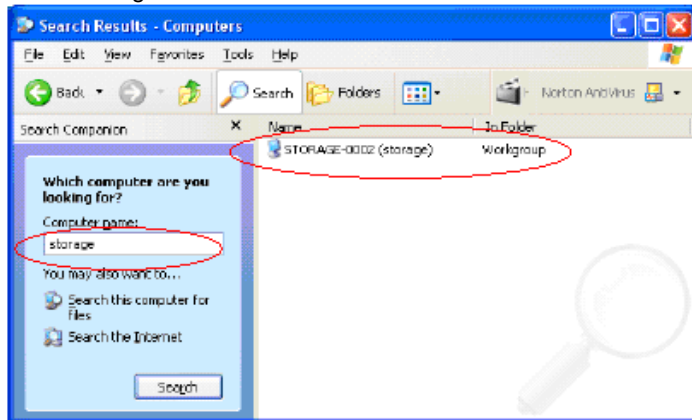
5. Click "OK" to show the folder in the Desktop.



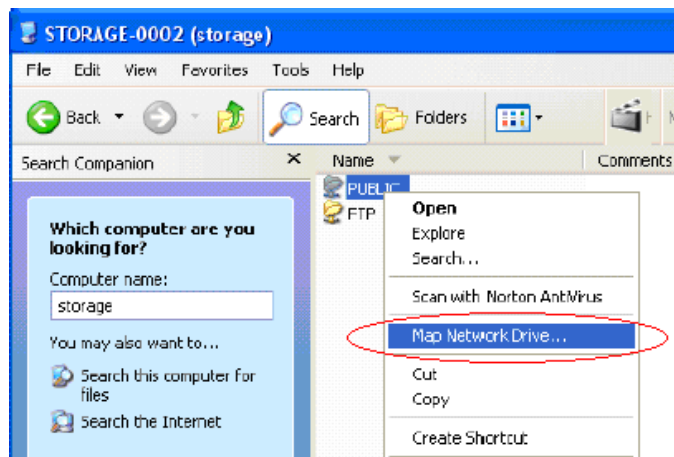
How to Map your NAS Adapter to your system.

Showing NAS Disk Drive in network

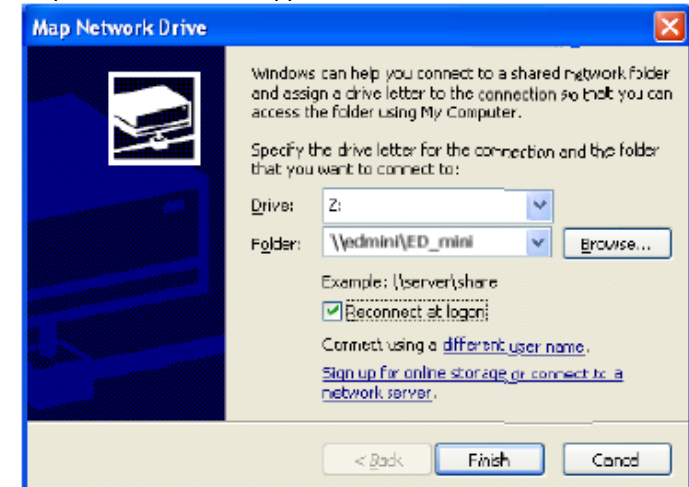
1. Press "Start" button on Windows desktop
2. Press "Search"
3. Select Folders
4. Select Computer or people
5. Select a computer on the network and a new window will appear.
6. Key in the host name, (For example "storage-xxxx") in the "Computer name" column and then press "Search" button. You will see the following window.



7. Point to the "Storage-xxxx", double click the mouse. Choose the folder you wish to map, click mouse on its right button and click "Map Network Drive".



Map Network Window appears



Note: For faster connection and usability, we recommend that you map a drive. This creates a direct access to the shared drive from My Computer (for more information about drive mapping, refer to your Windows manual).

Access SMB folder of NAS Adapter in Ubuntu 8.04

First, using the console get the prerequisites for the samba file system:

```
$ sudo aptitude install samba smbfs
$ mkdir /mnt/NAS
$ sudo mount.cifs //NAS_adapter_IP_address/Public /mnt/NAS -o
username=Guest
```

Search NAS Adapter by SDisk Utility in Ubuntu 8.04

You are going to be installing the JRE and the web browser plug-in. Use the following command from a terminal

```
$ sudo apt-get install sun-java6-jre sun-java6-plugin sun-java6-fonts
```

Check that the JRE is properly installed by running the following command from a terminal.

```
$ java -version
```

You should get similar output

```
java version "1.6.0"
```

```
Java(TM) SE Runtime Environment (build 1.6.0-b105)
```

```
Java HotSpot(TM) Client VM (build 1.6.0-b105, mixed mode, sharing)
```

Navigate to the folder where the jar file is located

```
$ java -jar Sdisk.jar
```

Technical Support

If you need assistance to get your unit functioning properly, please call Addonics Technical Support. Our technical staff will be happy to assist you, but they will need your help to do so. Calling the technical support staff without all the proper information can be both time consuming and frustrating. Here are some tips to help you out:

MODEL NUMBER – Please have this number on hand.

SYSTEM INFORMATION – Type of computer, peripherals, etc.

OPERATING SYSTEM – What version of Windows

WHAT'S THE TROUBLE? – Give enough information
about your problem so that we can recreate and diagnose it.

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